

O P E  
NOV 03 2004

**Circuitry changing or compensating electrical properties of current converter with magnetic field compensation - contains prim., sec. and measurement coils on core, Hall element in air gap feeding compensation current source controller**

Patent Number: DE4230939

Publication date: 1994-03-17

Inventor(s): ALBRECHT KAI (DE); MEYER HELMUT (DE)

Applicant(s): HEIDELBERGER DRUCKMASCH AG (DE)

Requested Patent:  DE4230939

Application Number: DE19924230939 19920916

Priority Number(s): DE19924230939 19920916

IPC Classification: H01F40/14; G01R31/06; G01R15/02; G01R19/00

EC Classification: G01R15/18C2, H01F27/42B4

Equivalents:

---

**Abstract**

---

The circuit contains a primary coil on the core (2) of a magnetic circuit with an air gap and switchable into a line carrying the measurement current. A secondary compensation coil (5), with an order higher winding count and mounted on the core, is connected to the output of a controllable compensation current source (6). The output of a Hall element (11) in the air gap is connected to the control input of the compensation source.

A further coil (14) on the core is connected to an additional controllable current generator (15) whose control input (16) is driven by a measurement device (13) for the compensation current via a control and evaluation circuit (17).

**USE/ADVANTAGE** - Measuring a.c. and d.c. Can be produced at low cost and all drift occurring during measurement can be compensated.

---

Data supplied from the esp@cenet database - I2